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PLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/633,642	08/05/2003		Noburu Furukawa	36856.1105	5479
54066	7590	09/09/2005		EXAMINER	
KEATING &		•	CHANG, RICK KILTAE		
8180 GREENSBORO DRIVE SUITE 850				ART UNIT	PAPER NUMBER
MCLEAN, VA 22102				3729	

DATE MAILED: 09/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/633,642	FURUKAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rick K. Chang	3729				
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be ti d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONI	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 05 /	<u>August 2003</u> .					
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-6 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ 	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	cepted or b) objected to by the edition of the drawing (s) be held in abeyance. Section is required if the drawing (s) is ob-	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Ints have been received in Application or the documents have been received in Application (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) L Interview Summary Paper No(s)/Mail D					
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date of record. 		Patent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-4 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Furukawa et al (US 6,588,094).

The applied reference has a common inventor and a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

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Furukawa discloses in claim 1 the steps of preparing, coating, laminating, cutting, sintering, forming steps; col. 1, lines 56-67 discloses about the inorganic material; col. 2, lines 52-67 and col. 3, lines 17-23 disclose about the ceramic green sheets and inorganic material; col. 3, lines 35-43 discloses about external electrodes; col. 4, lines 5-13 discloses about metal oxide.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Furukawa et al (US 6,588,094).

Furukawa fails to disclose that the inorganic material includes a total of 100% by weight of inorganic materials, the content of the same ceramic material as that included in the ceramic green sheets is about 5% to about to about 50% by weight, and the content of the inorganic material having higher resistivity than that of the ceramic material is preferably about 50% to about 95% by weight. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the inorganic material includes a total of 100% by weight of inorganic materials, the content of the same ceramic material as that included in the ceramic green sheets is about 5% to about to about 50% by weight, and the content of the inorganic material having higher resistivity than that of the ceramic material is preferably about 50% to about 95% by weight, since it has been held that where the general conditions of a claim

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are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Conclusion

- 5. Please provide reference numerals (either in parentheses next to the claimed limitation or in a table format with one column listing the claimed limitation and another column listing corresponding reference numerals in the remark section of the response to the Office Action) to all the claimed limitations as well as support in the disclosure for better clarity (optional). Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (571) 272-4564. The examiner can normally be reached on 5:30 AM to 1:30 PM, Monday through Thursday.

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

RICHARD CHANG PRIMARY EXAMINER Application/Control Number: 10/633,642

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